Assignment 2

Lexic

Alphabet:

* Uppercase letters: A - Z
* Lowercase letters: a - z
* Decimal digits: 0 - 9

Lexical:

* Special symbols, representing:
  + Operators
    - Comparison:
      * ==
      * !=
      * <=
      * >=
      * <
      * >
    - Logical:
      * and
      * or
      * not
    - Arithmetic:
      * =
      * +
      * –
      * /
      * \*
  + Separators
    - ()
    - []
    - {}
    - :
    - ;
    - ,
    - space
    - /n
    - /t
    - “
  + Reserved words
    - read
    - write
    - fread
    - fwrite
    - if
    - else
    - while
    - for
    - int
    - char
    - string
    - var
    - const
* Identifiers:
  + Identifier = letter | letter {letter}{digit}
  + Letter = “A” | “B” | … | “Z” | “a” | “b” | … | “z”
  + Digit = “0” | “1” | … | “9”
  + NonZeroDigit = “1” | … | “9”
* Constants:
  + NumericConstant = “0” | [“+”] NonZeroDigit | [“-”] NonZeroDigit
  + StringConstant = “{char}”
  + CharConstant = “[char]”
  + Char = letter | digit | “ “